**7.Using Join and Count to Create Multiple S3 Buckets**

**Find three files as below:-**

**main.tf :-**

**---------**

**provider "aws" {**

**region = "${var.aws\_region}"**

**}**

**resource "random\_id" "tf\_bucket\_id" {**

**byte\_length = 2**

**}**

**resource "aws\_s3\_bucket" "tf\_code" {**

**bucket = "${var.project\_name}-${random\_id.tf\_bucket\_id.dec}"**

**acl = "private"**

**force\_destroy = true**

**tags {**

**Name = "tf\_bucket"**

**}**

**}**

**variables.tf:-**

**--------------**

**variable "aws\_region" {**

**default = "us-east-1"**

**}**

**variable "project\_name" {**

**default = "la-terraform"**

**}**

**outputs.tf:-**

**-------------**

**output "bucketname" {**

**value = "${aws\_s3\_bucket.tf\_code.id}"**

**}**

**Update the Variables File:-**

**Edit variables.tf.**

**Add a new variable number\_of\_instances.**

**Set the the default to 2.**

**Update the Main File:-**

**Update random\_id and add a count.**

**Set the value count to use the number\_of\_instances variable.**

**Update aws\_s3\_bucket and add a count.**

**Update random\_id.tf\_bucket\_id.dec so it iterates through the count. Update the Name tag so that tf\_bucket is appended with the count index plus one.**

**Update the Outputs File:-**

**Update the bucketname output value to use the join function so that it returns a comma delimited list of bucket names.**

**Deploy the Infrastructure:-**

**Initialize Terraform.**

**Validate the files.**

**Deploy the S3 buckets.**

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**Main.tf**

provider "aws" {

  access\_key = var.aws\_access\_key

  secret\_key = var.aws\_secret\_key

  region = "${var.aws\_region}"

}

 resource "random\_id" "tf\_bucket\_id" {

 byte\_length = 2

 count = 2

}

resource "aws\_s3\_bucket" "tf\_code" {

count         = 2

bucket        = "terraform-bucket-${random\_id.tf\_bucket\_id.\*.dec[count.index]}"

acl           = "private"

force\_destroy = true

}

**Variable.tf**

variable "aws\_region" {

  default = "us-east-1"

}

variable "project\_name" {

  default = "la-terraform"

}

variable "aws\_access\_key" {

  default = "AKIAXE6A4XQ3FKLU6FOB"

}

variable "aws\_secret\_key" {

  default = "PzQL/6BJZWnOjrba70FdIiauJam6fYXR3JF1LvaK"

}

variable "number\_of\_instances" {

  default = "2"

}

**Output.tf**

output "bucketname" {

  value = "${join(", ", aws\_s3\_bucket.tf\_code.\*.id)}"

}

**Result:**

